

UNIVERSITY OF LOUISIANA AT LAFAYETTE

GEOLOGY 105 (Section 4): GEOLOGY AND MAN, Spring 2007

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Class meets: TR 9.30 – 10.45 am

Office Hours: MWF: 10 am - noon, T: 1 – 3 pm, or by appointment

Course description

General principles of geology. An introduction to the materials, processes and structure of the earth. Topics include minerals, volcanoes, plate tectonics, mountain building, earthquakes, weathering and erosion, glaciation and ice ages, oceans, erosion, ground water, and Earth's climate.

Textbook

Carlson, Plummer, McGeary: Physical Geology: Earth Revealed. 6th edition; McGraw Hill. Louisiana edition with CPS response pad.

Prerequisites: NONE

Course Objectives:

This course is aimed at providing non-geology majors with the necessary knowledge about physical geology (the study of earth materials, such as minerals, rocks and petroleum, as well as the processes operating within the earth and upon its surface, such as earthquakes and volcanoes), including the concepts of plate tectonics which help us to understand the significance of what we learn. The objectives of this course are:

- A. To introduce the basic concepts and practices of physical geology and the recognition of geological processes.
- B. To help students develop the capacities to understand issues concerning geological topics that may affect their lives, including geological hazards, mineral resources, and environmental concerns.
- C. To consider the principles of science as applied in geological investigation, the history of geological knowledge, as well as topics currently being investigated by geologists.
- D. To lead students to a deeper knowledge of and appreciation for the natural world.

Grading

A total of 500 points is possible in the course, with final grade determination as shown:

Exams (3 @ 100 points ea.)	300 points
Quizzes and participation (CPS)	100 points
Comprehensive Final Exam	100 points
Total points	500 points

Note: there will be four exams worth 100 points each; you will only need to participate in three exams to reach the full points. If you participate in all four tests, the lowest score will be dropped.

The **final exam** is comprehensive and will cover the material of the entire semester.

During exams you are not allowed to leave an exam in the first fifteen minutes, and cannot come in after the first person has left.

Final grade: The determination of the final grade is based on the following scale:

450 - 500 = A
400 - 449 = B
350 - 399 = C
300 - 349 = D
below 300 = F

Final grades that are within 5 points (1.0%) of the next highest grade (e.g., achieve ≥ 445 , ≥ 395 , ≥ 345 , or ≥ 295 points), will be raised to the next highest grade if not more than three classes were missed. The final grade will be determined for everybody strictly by these criteria.

Scantron cards for exams: You will need 5 blank SCANTRON forms (Scantron Form 2050-CN, which is blue or Accu-scan Form 2052, which is brown). Each 1 hr exam will be taken on a SCANTRON and will be machine graded. You must indicate your Cajun Card number, first and last name, and version number on the Scantron. Failure to do so or mistakes made on the Scantron will result in points deducted from your score (5% for first mistake, 10% for second, and 20% thereafter).

Class Participation and eInstruction Classroom Performance System

We will use an interactive lecture aide called the Classroom Performance System (or **CPS**). Each student is required to purchase and register a small blue response pad (like a remote control) which is packaged with the textbook. Follow the directions in the front pages of the textbook and enroll online at www.einstruction.com (Click on CPS Higher Ed. Login for Students, then choose University of Louisiana).

You will then need:

- 1) A class key code, which is J11541K112
- 2) An enrollment code or coupon code, provided with your *new* textbook
- 3) A serial number, printed on the back of the response pad

Once everyone in the class is enrolled, each pad will be linked to a specific student (you'll be given a NUMBER of 1-200 for your pad), and your responses during class will be recorded and will *contribute to your final course grade*. It is *very important* for you to bring your pad to every lecture. **DO NOT** switch response pads or input responses for a student who is *not* in class that day – this is considered cheating. **Lost or malfunctioning response pads will need to be replaced.** Carefully store your response pad so as to avoid wearing out your batteries.

If you forget your remote or it is not working: You will not be able to participate in class and receive no credit. Three missed class periods will be excused. If you have reasons to miss more than three class periods you have to make arrangements through the office of the Dean of Students.

Course information in Moodle

Much of the course-related information and communication will be conducted within the Moodle site (<http://moodle.louisiana.edu>) for GEOL 106. Everything for the course can be found within Moodle - the syllabus, slides, grades, links, and other files. Moodle can be accessed from any computer equipped with an internet connection and a web browser.

Slides used in the lectures are available in Acrobat PDF format on the Moodle webpage. These files can be very large and should be downloaded from a fast internet connection. To read and print these files you need Acrobat Reader (free at <http://www.adobe.com>).

Class Attendance Policy: Students are expected to attend all classes, and the university requires that instructors maintain attendance records. Because attendance is ascertained through CPS, missing classes puts you at risk for failure. If you miss class, it is your responsibility to interview an informed classmate as to what material was covered and whether any assignments were given. Only those students who ATTEND class are the students who SUCCEED in class. There is NO SUBSTITUTE for attending class.

Out-of-class time: Understanding geology takes time, and like a sport it has to be practiced regularly (i.e., every day, or every other day), not crammed into one long overnight session the day before the exam. College courses require approximately 2-3 hours of work outside of class for every hour spent in class. This means you should expect to devote at least 6-9 hours per week, in order to do well in this course.

Classroom etiquette: Cell phones, beepers, and watch alarms must be turned off prior to entering the room.

Missed exams and quizzes

Exams: You need to participate in three of the four exams given in class. No excuse needed if you miss one of them. **There will be no make-up exams.**

Missed CPS participation: Three missed CPS quizzes (four whatever reason, e.g., empty batteries, forgotten remote, illness, funerals) are automatically excused, all other missed quizzes count as zero.

If you are going to miss a number of classes, or need special consideration, please contact the Dean of Students. The Dean's office will assist you, and contact your instructors for you.

School functions and athletes: make arrangements **BEFORE** the exam/class you have to miss.

Scholastic Dishonesty: You are responsible for familiarizing yourself with the student handbook, the undergraduate Bulletin and the code of academic honesty. **The penalties for cheating in any form are severe,** and may include an F for a test, an F for the course or even suspension from the University. If you are in doubt as to whether something is permitted, **ask.**

Emergency evacuation: In the event of an emergency that requires evacuation of the class room, leave by the side doors and follow the emergency escape route which is posted by the stairs. These instructions indicate a Designated Rescue Area where emergency service personnel will go first to look for individuals who need assistance in exiting the building. Do not take the elevator. Students who may need assistance should identify themselves to the teaching faculty.

Disabilities: It is the responsibility of students who have professionally diagnosed disabilities to notify the instructor so that necessary and appropriate modifications can be made to meet any special learning needs.

Important academic dates/deadlines: February 17-21: Mardi Gras; April 6-15: Easter/Spring Break; March 29: Last day to drop with W; May 4: Last day of classes. May 7 (7.30 - 10.00 am): Final Examination.

Tentative Schedule:

<i>Day</i>	<i>Month</i>	<i>Topic</i>	<i>Chapter</i>
16	January	Introduction, Syllabus	
18	January	Introduction Geology	1
23	January	Introduction Geology	1
25	January	Minerals	9
30	January	Volcanoes	10
1	February	Volcanoes	10
6	February	Igneous Rocks	11
8	February	Mass Wasting	13
13	February	EXAM 1 (Chap 1, 9, 10, 11)	
15	February	Sediments	14
20	February	Mardi Gras	
22	February	Metamorphism	15
27	February	Interior	2
1	March	Seafloor	3
6	March	Seafloor	3
8	March	Exam 2 (Chap 13,14,15,2,3)	
13	March	Plate Tectonics	4
15	March	Plate Tectonics	4
20	March	Mountains and structures	5,6
22	March	Earthquake	7
27	March	Earthquakes	7
29	March	Streams and Floods	16
3	April	Exam 3 (Chap 4-7, 16)	
5	April	Groundwater	17
10	April	Easter/Spring Break	
12	April	Easter/Spring Break	
17	April	Deserts	18
19	April	Glaciers and ice ages	19
24	April	Resources	21
26	April	Louisiana Geology	23
1	May	Exam 4 (Chap 17, 18, 19, 21)	
3	May	Louisiana Geology	23
7	May	FINAL EXAM (7.30 - 10.00 am)	